(Withdrawn, Currently Amended) A process for the preparation of solid
polyester granules by suspension polymerization, the process comprising <u>reacting</u> a combination
of diacyl peroxides with an aromatic amine of formula (f):

where R¹ is an optionally substituted C₁-C₂₀ alkyl group, or -(CHR'CHR'-O)_nH, where n is 1 to 10 and each R' is independently selected from H and C₁-C₁ alkyl;

 R^2 is an optionally substituted C_1 - C_{20} alkyl group, or -(CHR'CHR'-O)_nH, where n is 1 to 10 and each R' is independently selected from H and C_1 - C_3 alkyl; and

Ar is an optionally substituted aryl group,

[[as]] to provide for a redox initiating system,

wherein the combination of diacyl peroxides comprises diaroyl peroxide and dialkanoyl peroxide having a diaroyl peroxide to dialkanoyl peroxide mole ratio that is equal to or greater than 1:1.

- $2. \mbox{ (Withdrawn)} \qquad \mbox{The process according to claim 1, wherein one or both of R^1 and R^2 are hydroxyethyl groups. }$
- 3. (Withdrawn) The process according to claim 1, wherein the diaroyl peroxide is selected from compounds of formula (II):

m

where R3 and R4 are independently selected from optionally substituted aryl.

4. (Cancelled)

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 (Withdrawn) The process according to claim 1, wherein the diaroyl peroxide is selected from dibenzoyl peroxide and 2,4-dichlorobenzoyl peroxide.

6. (Withdrawn) The process according to claim 1, wherein the dialkanoyl peroxide is selected from compounds of formula (III):

(III)

where R⁵ and R⁶ are independently selected from optionally substituted alkyl.

7. (Cancelled)

- 8. (Withdrawn) The process according to claim 1, wherein the dialkanoyl peroxide is selected from dilauroyl peroxide, diacetyl peroxide, disuccinyl peroxide, di(3,5,5-trimethylhexanoyl) peroxide, and didecanoyl peroxide.
- (Withdrawn) The process according to claim 1, wherein the mole ratio of the diaroyl peroxide to the dialkanoyl peroxide ranges from 1:1 to 10:1.

10-11. (Cancelled)

12. (Withdrawn) The process according to claim 1, wherein the mole ratio of the aromatic amine to the total number of moles of the diaroyl and dialkanoyl peroxides ranges from 1:2 to 1:8.

13-14. (Cancelled)

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15. (Withdrawn) The process according to claim 1, wherein the aromatic amine is selected from N-ethyl-N-hydroxyethyl aniline, N,N-bis hydroxyethyl aniline, N-ethyl-N-hydroxyethyl-p-toluidine and N,N-bis 2-hydroxyethyl)-p-toluidine.

- 16. (Original) A process for the preparation of solid polyester granules comprising:
- (i) preparing a solution of unsaturated polyester and a combination of diacyl peroxides in styrene, wherein the combination of diacyl peroxides comprises diaroyl peroxide and dialkanoyl peroxide having a diaroyl peroxide to dialkanoyl peroxide mole ratio that is equal to or greater than 1:1,
 - (ii) emulsifying said solution in water to provide a stabilised oil-in-water emulsion,
 - (iii) adding to said emulsion an aromatic amine of formula (I):

(1)

where R^l is an optionally substituted C_1 - C_{20} alkyl group, or –(CHR'CHR'-O)_nH, where n is 1 to 10 and each R' is independently selected from H and C_1 - C_3 alkyl;

 R^2 is an optionally substituted C_1 - C_{20} alkyl group, or -(CHR'CHR'-O)_nH, where n is 1 to 10 and each R' is independently selected from H and C_1 - C_3 alkyl; and

Ar is an optionally substituted aryl group,

such that reaction of said aromatic amine of formula (I) with each of the diaroyl and dialkanoyl peroxides generates a radical flux capable of initiating polymerisation of the unsaturated polyester and the styrene.

- 17. (Original) The process according to claim 16, wherein one or both of \mathbb{R}^1 and \mathbb{R}^2 are hydroxy ethyl groups.
- 18. (Previously presented) The process according to claim 16, wherein the diaroyl peroxide is selected from compounds of formula (II):

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$$R^3$$
—C—O—O—C— R^4

(II)

where R³ and R⁴ are independently selected from optionally substituted aryl.

19. (Cancelled)

- 20. (Previously presented) The process according to claim 16, wherein the diaroyl peroxide is selected from dibenzoyl peroxide and 2,4-dichlorobenzoyl peroxide.
- 21. (Previously presented) The process according to claim 16, wherein the dialkanoyl peroxide is selected from compounds of formula (III):

(III)

where R5 and R6 are independently selected from optionally substituted alkyl.

22. (Cancelled)

- 23. (Previously presented) The process according to claim 16, wherein the dialkanoyl peroxide is selected from dilauroyl peroxide, diacetyl peroxide, disuccinyl peroxide, di(3,5,5-trimethylhexanoyl) peroxide, and didecanoyl peroxide.
- 24. (Previously presented) The process according to claim 16, wherein the mole ratio of the diaroyl peroxide to the dialkanoyl peroxide ranges from 1:1 to 10:1.

25-26. (Cancelled)

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27. (Previously presented) The process according to claim 16, wherein the mole ratio of the aromatic amine to the total number of moles of the diaroyl and dialkanoyl peroxides

ranges from 1:2 to 1:8.

28-29. (Cancelled)

30. (Currently Amended) The process according to claim 16, wherein the aromatic

amine is selected from N-ethyl-N-hydroxyethyl aniline, N,N-bis hydroxyethyl aniline, N-ethyl-

N-hydroxyethyl-p-toluidine and N,N bis 2 hydroxyethyl) p-toluidine N,N-bis(2-hydroxyethyl)-

p-toluidine.

31. (Previously presented) The process according to claim 16, wherein the resultant

polyester granule slurry prepared by the process has a residual free styrene level of less than

1000 ppm.

32-33. (Cancelled)

34. (Previously presented) The process according to claim 16, wherein the unsaturated

polyester is a terpolymer of maleic anhydride, phthalic anhydride and propylene glycol.

35. (Previously presented) The process according to claim 16, wherein the solid

polyester granules have an average diameter of up to 500 $\mu\text{m}.$

36. (Previously presented) The process according to claim 16, wherein the aromatic

amine is added to the emulsion as a spray or as a series of thin streams.

37. (Withdrawn) A process for the preparation of solid polyester granules

comprising:

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- (i) preparing a solution of unsaturated polyester, and first diacyl and second diacyl peroxide in styrene, wherein the mole ratio of the first peroxide to the second peroxide is equal to or greater than 1:1,
 - (ii) emulsifying said solution in water to provide a stabilised oil-in-water emulsion,
 - (iii) adding to said emulsion an aromatic amine of formula (I):

where R^1 is an optionally substituted C_1 - C_{20} alkyl group, or -(CHR'CHR'-O)_nH where n is 1 to 10 and each R' is independently selected from H and C_1 - C_3 alkyl;

 R^2 is an optionally substituted C_1 - C_{20} alkyl group, or -(CHR'CHR'-O)_nH where n is 1 to 10 and each R' is independently selected from H or C_1 - C_1 alkyl; and

Ar is an optionally substituted arvl group.

such that reaction of the aromatic amine of formula (I) with each of the first and second diacyl peroxides generates a radical flux capable of initiating polymerisation of the unsaturated polyester and the styrene, and wherein at the commencement of the polymerisation the radical flux generated by the first peroxide is greater than any radical flux generated by the second peroxide.

38. (Cancelled)

- 39. (Withdrawn) A water-based decorative paint composition comprising binder and polyester granules prepared in accordance with the process of claims 1, 16 or 37.
- 40. (Withdrawn) The water-based decorative paint composition according to claim 39, wherein the pigmented polyester granules comprise two or more differently coloured pigmented polyester granules.

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41. (Withdrawn) The water-based decorative paint composition according to claim 40, wherein the two or more differently coloured pigmented polyester granules attain their different colours through incorporation of different pigment materials.

42. (Cancelled)

- 43. (Withdrawn) A water-based decorative paint film comprising polyester granules prepared in accordance with the process of claims 1, 16 or 37, wherein the granules protrude from the surface of the paint film.
- 44. (Withdrawn) A redox initiating system for use in the manufacture of solid polyester granules by suspension polymerization, the system comprising a combination of diacyl peroxides with an aromatic amine of formula (I):

where R^1 is an optionally substituted C_1 - C_{20} alkyl group, or $-(CHR'CHR'-O)_nH$, where n is 1 to 10 and each R' is independently selected from H and C_1 - C_3 alkyl;

 R^2 is an optionally substituted C_1 - C_{20} alkyl group, or -(CHR'CHR'-O)_nH, where n is 1 to 10 and each R' is independently selected from H and C_1 - C_3 alkyl; and

Ar is an optionally substituted aryl group,

wherein the combination of diacyl peroxides comprises diaroyl peroxide and dialkanoyl peroxide having a diaroyl peroxide to dialkanoyl peroxide mole ratio that is equal to or greater than 1:1.

45. (Withdrawn) The redox initiating system according to claim 44, wherein one or both of R^1 and R^2 are hydroxyethyl groups.

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46. (Withdrawn) The redox initiating system according to claim 44, wherein the diaroyl peroxide is selected from compounds of formula (II):

(II)

where R³ and R⁴ are independently selected from optionally substituted aryl.

- 47. (Withdrawn) The redox initiating system according to claim 44, wherein the diarovl peroxide is selected from dibenzoyl peroxide and 2,4-dichlorobenzoyl peroxide.
- 48. (Withdrawn) The redox initiating system according to claim 44, wherein the dialkanovl peroxide is selected from compounds of formula (III):

$$R^{5}$$
—C—O—O—C— R^{6}

(III)

where R5 and R6 are independently selected from optionally substituted alkyl.

- 49. (Withdrawn) The redox initiating system according to claim 44, wherein the dialkanoyl peroxide is selected from dilauroyl peroxide, diacetyl peroxide, disuccinyl peroxide, di(3,5,5-trimethylhexanoyl) peroxide, and didecanoyl peroxide.
- 50. (Withdrawn) The redox initiating system according to claim 44, wherein the mole ratio of the diaroyl peroxide to the dialkanoyl peroxide ranges from 1:1 to 10:1.
- 51. (Withdrawn) The redox initiating system according to claim 44, wherein the mole ratio of the aromatic amine to the total number of moles of the diaroyl and dialkanoyl peroxide ranges from 1:2 to 1:8.

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52. (Withdrawn) The redox initiating system according to claim 44, wherein the aromatic amine is selected from N-ethyl-N-hydroxyethyl aniline, N,N-bis hydroxyethyl aniline,

N-ethyl-N-hydroxyethyl-p-toluidine and N,N-bis 2-hydroxyethyl)-p-toluidine.